

## Lista lucrărilor publicate – Daniel CRISTINA

### TEZĂ DE DOCTORAT

Evaluarea asocierii unor markeri moleculari cu dimensiunile și masa boabelor la grâul comun (*Triticum aestivum* L.), conducător științific Prof. Univ. Dr. CORNEA Petruța Călina, Universitatea de Științe Agronomice și Medicină Veterinară, București.

#### 1. Cărți sau capitole în cărți de specialitate

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#### 2. Articole/studii publicate în reviste de specialitate si de circulație internațională recunoscute sau în reviste din țară recunoscute de către CNCSIS

##### <<LUCRĂRI ISI/INDEXATE ISI>>

1. Ciucă, M., **Cristina, D.**, Petcu, V., & Toncea, I. (2023). Screening Soybean Germplasm for Presence of Cda1 Allele Involved in Low Cadmium Accumulation Using Molecular Markers. ROMANIAN AGRICULTURAL RESEARCH, NO. 40, 13-18. <https://www.incda-fundulea.ro/rar/nr40fol/rar40.19.pdf>
2. **Cristina, D.**, Ciuca, M., Manda, V. and Cornea, C.P., 2022. Assessment of 25 genes reported to influence thousand grain weight in winter wheat germplasm. Cereal Research Communications, 50(2), pp.237-243. WOS:000648370700001. <https://link.springer.com/article/10.1007/s42976-021-00170-0>
3. Crîngașu, A., Ciucă, M., **Daniel, C.**, Cornea, C. P., Ittu, G., & Conțescu, E. L. 2021. Characterization of Checo/F95-927 pea (*Pisum sativum* L.) population for winter frost tolerance using molecular markers. Romanian Biotechnological Letters, Vol. 26, No.1, pag. 2262-2268. Print ISSN 1224-5984. Online ISSN 2248-3942. WOS:000596730800010 doi: 10.25083/rbl/26.1/2262.2268. <https://rombio.unibuc.ro/wp-content/uploads/2022/04/26-1-10.pdf>
4. Sturzeanu, M., Ciuca, M., **Cristina, D.** and Turcu, A.G., 2021. Use of RAPD and SCAR markers for identification of strawberry genotypes with red stele resistance genes Rpfl and fruit rot resistance genes Rca2 in the hybrid progenies. Acta Hort. 1309, 93-100. WOS:000717075100014. <https://doi.org/10.17660/ActaHortic.2021.1309.15>
5. Giura, A., Șerban, G., Ciucă, M., **Cristina, D.**, Turcu, A.G. and Săulescu, N.N., 2019. Improved tolerance to increased temperatures during grain filling in a winter wheat (*Triticum aestivum* L.) line selected from a cross involving *Aegilops speltoides* Tausch. Romanian Agricultural Research, 36, pp.21-26. WOS:000470703800003. <https://www.incda-fundulea.ro/rar/nr36/rar36.3.pdf>
6. Elena PETCU, Matilda CIUCĂ, **Daniel CRISTINA**, Cătălin LAZĂR, Cristina MARINCIU, Steliana BARBU, 2019. THE USE OF GROWTH ANGLE OF SEMINAL ROOTS AS TRAIT TO IMPROVE THE DROUGHT TOLERANCE IN WINTER WHEAT (*TRITICUM AESTIVUM* L.). Scientific Papers. Series A. Agronomy, Vol. LXII, No. 2. WOS:000503422700019. [https://agronomyjournal.usamv.ro/pdf/2019/issue\\_2/Art19.pdf](https://agronomyjournal.usamv.ro/pdf/2019/issue_2/Art19.pdf)



7. **Cristina, D.**, Ciucă, M., Manda, V. and Cornea, C.P., 2018. Genetic diversity of TaSAP1-A1 locus and its association with TKW in some European winter wheat cultivars. ROMANIAN AGRICULTURAL RESEARCH, NO. 35, pp.3-9. WOS:000444761400001. <https://www.inceda-fundulea.ro/rar/nr35/rar35.1.pdf>
8. Ciucă, M., **Cristina, D.** and Turcu, A.G., 2018. SSR marker TSM106 is a convenient tool for identifying wheat-RYE 1AL.1RS translocation. Romanian Agricultural Research, 35, pp.11-14. WOS:000444761400002. <https://www.inceda-fundulea.ro/rar/nr35/rar35.2.pdf>
9. **Cristina, D.**, Ciuca, M. and Cornea, C.P., 2017. Comparison of four genomic DNA isolation methods from single dry seed of wheat, barley and rye. AgroLife Scientific Journal, 6(1), pp.84-91. WOS:000404437800011. [https://agrolifejournal.usamv.ro/pdf/vol.VI\\_1/Art11.pdf](https://agrolifejournal.usamv.ro/pdf/vol.VI_1/Art11.pdf)
10. Sturzeanu, M., Coman, M., Ciuca, M., Ancu, I., **Cristina, D.** and Turcu, A.G. (2016). Molecular characterization of allelic status of the Rpf1 and Rca2 genes in six cultivars of strawberries. Acta Hort. 1139, 107-112. WOS:000385238300019. <https://doi.org/10.17660/ActaHortic.2016.1139.19>
11. Ciuca, M., **Cristina, D.**, Turcu, A. G., Contescu, E. L., Ionescu, V., & Saulescu, N. N. (2015). Molecular detection of the adult plant leaf rust resistance gene Lr34 in Romanian winter wheat germplasm. Cereal Research Communications, 43(2), 249-259. WOS:000354137400007. <https://doi.org/10.1556/CRC.2014.0040>
12. **Cristina, D.**, Turcu, A.G. and Ciuca, M. (2015). Molecular detection of resistance genes to leaf rust Lr34 and Lr37 in wheat germplasm. Agriculture and Agricultural Science Procedia, 6, pp.533-537. WOS:000380846200080. <https://doi.org/10.1016/j.aaspro.2015.08.080>

#### **<<Lucrări BDI>>**

1. **Cristina, D.**, Turcu, A.G., Conțescu, E.L., Marinciu, C.M., Șerban, G., Ciucă M. (2022). Detectarea variantelor alelice ale genei NAM-A1 într-o colecție de genotipuri de grâu de toamnă obținute la INCDA Fundulea. AN. INCDA Fundulea, Vol. XC, pag. 101-109. Electronic ISSN 2067-7758. <https://www.inceda-fundulea.ro/anale/90/90.18.pdf>
2. Cristina-Mihaela Marinciu, Gabriela Șerban, Vasile Manda, Indira Galit, Matilda Ciucă, **Daniel Cristina** (2022). Rezultate preliminare privind caracterizarea unor soiuri de grâu testate la I.N.C.D.A. Fundulea în sistemul de agricultură ecologică. AN. INCDA FUNDULEA, VOL. XC. Pag. 3-17. <https://www.inceda-fundulea.ro/anale/90/90.1.pdf>
3. Ciucă, M., Butac, M., Conțescu, E.L., Turcu, A.G., Iordăchescu, M., **Cristina, D.** (2022). Studiul diversității genetice la genotipuri de prun utilizând markeri SRAP. Fruit Growing Research, Vol. XXXVIII. pag. 70-75. DOI 10.33045/fgr.v38.2022.10. <https://publications.icdp.ro/publicatii/lucrari/%202022/10.%20Matilda%20Ciuca.pdf>
4. **Cristina, D.**, Turcu, A.G., Marinciu, C.M., Șerban, G., Galit, I., Contescu, E.L., Manda, V. and Ciucă, M., (2021). DNA markers-assisted selection to pyramid rust resistance genes in wheat breeding lines. Lucrări Științifice – vol. 64(1)/2021, seria Agronomie. <http://www.uaiasi.ro/revagrois/PDF/2021-1/paper/02.pdf>



5. CONȚESCU, E. L., CIUCĂ, M., TURCU, A. G., & **CRISTINA, D.** (2021). GENETIC ANALYSIS OF SOME TOMATO (*SOLANUM LYCOPERSICUM* L.) GENOTYPES BY TBP AND SCOT MARKER SYSTEMS. *Lucrari Stiintifice, USV Iasi, Seria Horticultura*, 64(1). Revista este indexată: CABI, INDEX Copernicus, Google Scholar. [http://www.uaiasi.ro/revista\\_horti/files/Nr1\\_2021/vol%2064\\_1\\_2021%20\(19\).pdf](http://www.uaiasi.ro/revista_horti/files/Nr1_2021/vol%2064_1_2021%20(19).pdf)
6. Ciuca, M., Turcu, A. G., Contescu, E. L., Dumitru, A., & **Cristina, D.** (2021). Screening winter wheat germplasm for detection of 1-FEH W3 variants for improvement of drought tolerance using KASP assay. *Lucrări Științifice - vol. 64(1). Seria Agronomie, USV Iași*, pag.105-108. <https://repository.uaiasi.ro/xmlui/handle/20.500.12811/3006>
7. Ciucă, M., Turcu, A.G., Conțescu, E.L., **Cristina, D.** 2020. Metodă adecvată pentru extracția de ADN din semințe și frunze pentru studii genetice la grâu (*Triticum aestivum* L.), tomate (*Solanum lycopersicum* L.) și ardei (*Capsicum annuum*) AN. I.N.C.D.A. Fundulea, Vol. LXXXVIII. Pag. 165-177. <https://www.incda-fundulea.ro/anale/88/88.19.pdf>
8. G. Șerban, C. Marinciu, V. Manda, M. Ciucă, **D. Cristina**, A. Turcu, L. Conțescu, G. Ittu, Săulescu, N.N. (2019). The current status of wheat breeding for heat tolerance at NARDI Fundulea. *European Cereals Genetics Co-operative Newsletter*, pag.137. *Proceedings of the 17th International EWAC Conference 3 – 8 June 2018 Bucharest, Romania*. [http://www.ewac.eu/docs/EWAC%202018%20Proceedings\\_FINAL.pdf](http://www.ewac.eu/docs/EWAC%202018%20Proceedings_FINAL.pdf)
9. **Cristina, D.**, Ciucă, M., Manda, V., & Cornea, C. P. (2019). TaGW2-6A gene association with kernel length and TKW in some European winter wheat cultivars. In *Proceedings of the 17th international EWAC conference* (pp. 44-49). [http://www.ewac.eu/docs/EWAC%202018%20Proceedings\\_FINAL.pdf](http://www.ewac.eu/docs/EWAC%202018%20Proceedings_FINAL.pdf)
10. Ciucă, M., & **Cristina, D.** (2019) SSR marker TSM592 for the detection and for distinguishing rye translocations 1AL. 1RS and 1BL. 1RS in a wheat background. In *Proceedings of the 17th international EWAC conference* (pp 98-101). [http://www.ewac.eu/docs/EWAC%202018%20Proceedings\\_FINAL.pdf](http://www.ewac.eu/docs/EWAC%202018%20Proceedings_FINAL.pdf)
11. Steliana Paula (DOBRE) BARBU, Aurel GIURA, **Daniel CRISTINA**, Călina Petruța CORNEA (2018). The Influence of Climatic Variations on the Stability of Wheat Plant Height. *Sciendop* pp 508-514. DOI: 10.2478/alife-2018-0080
12. **Cristina, D.**, Ciuca, M. and Cornea, P.C., (2016). Genetic control of grain size and weight in wheat-where are we now. *Sci. Bull. Ser. F. Biotechnol*, 20, pp.27-34. <https://biotechnologyjournal.usamv.ro/pdf/2016/Art4.pdf>
13. Ciucă M., **Cristina D.**, Turcu A.G., Contescu E.L., Marinciu C., Ittu M. (2016). Molecular approach to validate the transfer of APR-Lr genes into Romanian adapted wheat genotypes. *European Cereals Genetics Co-operative Newsletter 2016. Proceedings of the 16th International EWAC Conference, 24-29 May 2015, Lublin, Poland*, pag. 80-84. [http://www.ewac.eu/docs/EWAC%202015%20Proceeding\\_FINAL.pdf](http://www.ewac.eu/docs/EWAC%202015%20Proceeding_FINAL.pdf)
14. Conțescu, E. L., Ciucă, M., **Cristina, D.**, Turcu, A., & Ionescu, V. (2015). Results regarding the identification of molecular markers associated with grain protein content located on 7B chromosome of F26-70 genotype. *Analele Institutului Național de Cercetare-Dezvoltare Agricolă Fundulea, VOL 83*, pag. 7-16, Electronic ISSN 2067-7758, pp.7-16. <https://www.incda-fundulea.ro/anale/83/83.1.pdf>



15. Ciucă, M., **Cristina, D.**, & Turcu, A. G. (2015). Molecular Characterization of Bunt Resistance in Romanian Wheat Line F00628G34-M, Selected From a Triticale (Triticosecale) x Winter Bread Wheat (Triticum aestivum) Cross. J. Plant Biol, 1(2), 1008. <https://austinpublishinggroup.com/plant-biology/fulltext/ajpb-v1-id1008.pdf>

### 3. Studii publicate în volumele unor manifestări științifice internaționale recunoscute din țară și din străinătate (cu ISSN sau ISBN)

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### 4. Brevete de invenție

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### 5. Proiecte de cercetare-dezvoltare-inovare pe baza de contract/grant

Program/denumire proiect	Perioada de derulare/funcția în cadrul proiectului
1. <b>ADER 3.1.1</b> Cercetări privind utilizarea markerilor moleculari pentru crearea și promovarea în producție a unor soiuri de grâu cu rezistență genetică la bolile criptogamice	2023-2026 Director de proiect
2. Horizon 2020, <b>ECOBREED</b> Nr. 771367 (proiect internațional) - Creșterea eficienței și competitivității ameliorării plantelor în agricultura organică.	2018-2023 Membru în echipă
3. <b>ADER 3.2.1</b> – „Accelerarea progresului genetic pentru rezistența sau toleranța la unii factori biotici și abiotici de mediu importanți pentru cultura grâului, prin elaborarea unor modalități de selecție timpurie cu ajutorul markerilor moleculari”	2019-2022 Director adjunct
4. <b>ADER 7.2.6</b> - Cercetări privind variația genetică, analizată prin tehnologia de secvențiere de ultimă generație - NGS, la speciile legumicole și pomicole de interes economic, în vederea genotipării acestora și obținerea unei baze de date a variațiilor genetice specifice speciilor autohtone.	2019-2022 Membru în echipă
5. <b>PN 19-25.01.01</b> - Caracterizarea moleculară a unei germoplasme de grâu privind unele caractere implicate în toleranța grâului la schimbările climatice	2019-2022 Membru în echipă
6. <b>PN 19-25.02.06</b> - Îmbunătățirea toleranței culturilor de grâu și triticale la factorii abiotici și biotici nefavorabili amplificați de schimbările climatice	2019-2022 Membru în echipă
7. <b>ADER 2.1.2</b> - Crearea și promovarea unor genotipuri noi de orz și orzoaică caracterizate prin însușiri superioare de	2019-2022 Membru în echipă

adaptabilitate la diferite condiții de mediu, productivitate și calitate cerute de industria alimentară și de zootehnie.	
8. <b>ADER 2.1.6</b> - Cercetări privind crearea și identificarea unor genotipuri de orz și/sau orzoaică de toamnă cu preabilitate superioară pentru producerea sucului de orz verde.	2019-2022 Membru în echipă
9. <b>ADER 1.1.1</b> - Îmbunătățirea structurii soiurilor de grâu de toamnă în sudul și estul țării prin crearea și introducerea de soiuri cu producție mai mare și mai stabilă în condițiile schimbărilor climatice și cu calitate corespunzătoare cerințelor pieței.	2015-2018 Membru în echipă
10. <b>ADER 1.1.6</b> – „Utilizarea metodelor biotehnologice pentru creșterea variabilității genetice a materialului de ameliorare și accelerarea progresului genetic în privința nivelului și stabilității recoltelor la principalele culturi agricole, în contextul schimbărilor climatice”.	2015-2018 Membru în echipă
11. <b>PN 16-16.01.01</b> - Accelerarea progresului genetic pentru principalele însușiri care determină reacția grâului la acțiunea factorilor climatici nefavorabili.	2016-2017 Membru în echipă
12. <b>PN 16-16.01.02</b> - Construirea unei baze genetice noi și valorificarea celei existente în vederea obținerii de soiuri de orz și orzoaică de toamnă cu stabilitate îmbunătățită a performanțelor agronomice și de calitate.	2016-2017 Membru în echipă
13. <b>PN 16-16.01.06</b> - Îmbunătățirea performanțelor agronomice la materialul de preameliorare la grâu, constituit din linii de introgresie și linii de translocatie cu gene valoroase de la specii înrudite.	2016-2017 Membru în echipă
14. <b>PN 18-39.01.01</b> - “Construirea unei baze genetice noi și valorificarea celei existente în vederea obținerii de soiuri de grâu și triticales de toamnă pentru panificație, cu stabilitate ridicată a performanțelor de producție și de calitate în variate condiții tehnologice capabile să minimizeze efectele negative ale schimbărilor climatice”.	2018 Membru în echipă
15. <b>PCCA 99/2012</b> – „Abordarea fenotipică și moleculară a ameliorării rezistenței durabile, de plantă adultă (slow-rusting, nespecifică) a grâului ( <i>Triticum aestivum</i> ) la rugina brună ( <i>Puccinia tritici</i> )”.	2012-2016 Membru în echipă

## 6. Alte lucrări

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## 7. Citări în reviste ISI și volumele conferințelor indexate WOS

Lucrarea citată	Locul citării
<p>1. Ciucă, M., <b>Cristina, D.</b>, Petcu, V., &amp; Toncea, I. (2023). Screening Soybean Germplasm for Presence of Cda1 Allele Involved in Low Cadmium Accumulation Using Molecular Markers. ROMANIAN AGRICULTURAL RESEARCH, NO. 40, 13-18.  <a href="https://www.inceda-fundulea.ro/rar/nr40fol/rar40.19.pdf">https://www.inceda-fundulea.ro/rar/nr40fol/rar40.19.pdf</a></p>	<p><b>1 citare</b></p> <p>1. Petcu, V., Bărbieru, A., Popa, M., Lazăr, C., Ciornei, L., Străteanu, A. G., &amp; Todirică, I. C. (2023). Early Sowing on Some Soybean Genotypes under Organic Farming Conditions. Plants, 12(12), 2295, <a href="https://doi.org/10.3390/plants12122295">https://doi.org/10.3390/plants12122295</a></p>
<p>2. <b>Cristina, D.</b>, Ciuca, M., Manda, V. and Cornea, C.P., 2022. Assessment of 25 genes reported to influence thousand grain weight in winter wheat germplasm. Cereal Research Communications, 50(2), pp.237-243.  <a href="https://link.springer.com/article/10.1007/s42976-021-00170-0">https://link.springer.com/article/10.1007/s42976-021-00170-0</a></p>	<p><b>4 citări</b></p> <p>1. Ji, G., Xu, Z., Fan, X., Zhou, Q., Chen, L., Yu, Q., ... &amp; Wang, T. (2023). Identification and validation of major QTL for grain size and weight in bread wheat (<i>Triticum aestivum</i> L.). The Crop Journal, 11(2), 564-572.</p> <p>2. Wang, J., Li, C., Mao, X., Wang, J., Li, L., Li, J., ... &amp; Jing, R. (2023). The wheat basic helix-loop-helix gene TabHLH123 positively modulates the formation of crown roots and is associated with plant height and 1000-grain weight under various conditions. Journal of Experimental Botany, 74(8), 2542-2555.</p> <p>3. Chegda, Y., Ouabbou, H., Essamadi, A., Sahri, A., Rios, C. N., Dreisigacker, S., &amp; Guzmán, C. (2022). Distribution of alleles related to grain weight and quality in Moroccan and North American wheat landraces and cultivars. Euphytica, 218(9), 123.</p> <p>4. Geyer, M., Mohler, V., &amp; Hartl, L. (2022). Genetics of the inverse relationship between grain yield and grain protein content in common wheat. Plants, 11(16), 2146.</p>
<p>3. Elena PETCU, Matilda CIUCĂ, <b>Daniel CRISTINA</b>, Cătălin LAZĂR, Cristina MARINCIU, Steliana BARBU, 2019. THE USE OF GROWTH ANGLE OF SEMINAL ROOTS AS TRAIT TO IMPROVE THE DROUGHT TOLERANCE IN WINTER WHEAT (<i>TRITICUM AESTIVUM</i> L.). Scientific</p>	<p><b>1 citare</b></p> <p>1. Güleç, T., Sönmez, M. E., Demir, B., Sabancı, K., &amp; Aydın, N. (2022). Effect of vernalization (<i>Vrn</i>) genes on root angles of bread wheat lines carrying rye translocation. Cereal Research Communications, 50(3), 367-378.</p>

<p>Papers. Series A. Agronomy, Vol. LXII, No. 2.  <a href="https://agronomyjournal.usamv.ro/pdf/2019/issue_2/Art19.pdf">https://agronomyjournal.usamv.ro/pdf/2019/issue_2/Art19.pdf</a></p>	
<p>4. Giura, A., Șerban, G., Ciucă, M., <b>Cristina, D.</b>, Turcu, A.G. and Săulescu, N.N., 2019. Improved tolerance to increased temperatures during grain filling in a winter wheat (<i>Triticum aestivum</i> L.) line selected from a cross involving <i>Aegilops speltoides</i> Tausch. Romanian Agricultural Research, 36, pp.21-26. WOS:000470703800003  <a href="https://www.incda-fundulea.ro/rar/nr36/rar36.3.pdf">https://www.incda-fundulea.ro/rar/nr36/rar36.3.pdf</a></p>	<p style="text-align: center;"><b>2 citări</b></p> <p>1. Vasile V., Ciucă M., Voaideş C., &amp; Cornea C. P. 2020. DNA-based methods used for varietal purity detection in wheat cultivars. AgroLife Scientific Journal, 9(1), 342-354. print ISSN 2285--5718, online ISSN 2286-0126.  <a href="https://agrolifejournal.usamv.ro/pdf/vol.IX_1/Art42.pdf">https://agrolifejournal.usamv.ro/pdf/vol.IX_1/Art42.pdf</a></p> <p>2. IANCU, P., &amp; SOARE, M. (2022). COMPARATIVE RESEARCH WITH SEVERAL DH MUTANT/RECOMBINANT WHEAT LINES CULTIVATED UNDER THE SOUTH ROMANIA CONDITIONS. Scientific Papers. Series A. Agronomy, 65(1).  <a href="https://agronomyjournal.usamv.ro/pdf/2022/issue_1/Art51.pdf">https://agronomyjournal.usamv.ro/pdf/2022/issue_1/Art51.pdf</a></p>
<p>5. <b>Cristina, D.</b>, Ciucă, M., Manda, V. and Cornea, C.P., 2018. Genetic diversity of TaSAP1-A1 locus and its association with TKW in some European winter wheat cultivars. ROMANIAN AGRICULTURAL RESEARCH, NO. 35, pp.3-9.  <a href="https://www.incda-fundulea.ro/rar/nr35/rar35.1.pdf">https://www.incda-fundulea.ro/rar/nr35/rar35.1.pdf</a></p>	<p style="text-align: center;"><b>3 citări</b></p> <p>1. Baidyussen, A., Jatayev, S., Khassanova, G., Amantayev, B., Sereda, G., Sereda, S., ... &amp; Shavrukov, Y. (2021). Expression of specific alleles of zinc-finger transcription factors, HvSAP8 and HvSAP16, and corresponding SNP markers, are associated with drought tolerance in barley populations. International Journal of Molecular Sciences, 22(22), 12156.</p> <p>2. Irina-Adriana Chiurciu, Daniela Dana, Valentina Voicu, Elena Cofas, Aurelia-Ioana Chereji, Ruben Budău (2023). MANAGEMENT OF RISKS FOR WHEAT CONTAMINATION WITH <i>Fusarium graminearum</i>. ROMANIAN AGRICULTURAL RESEARCH, NO. 40, doi.org/10.59665/rar4051</p> <p>3. IANCU, P., &amp; SOARE, M. (2022). COMPARATIVE RESEARCH WITH SEVERAL DH MUTANT/RECOMBINANT WHEAT LINES CULTIVATED UNDER THE SOUTH ROMANIA CONDITIONS. Scientific Papers. Series A. Agronomy, 65(1).  <a href="https://agronomyjournal.usamv.ro/pdf/2022/issue_1/Art51.pdf">https://agronomyjournal.usamv.ro/pdf/2022/issue_1/Art51.pdf</a></p>
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